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NOVADURAN -PBT-

				Unreinforced UL-HB type
Properties	Test Method	Terms	Units	5010R5
				Standard
				-
				-
Physical properties				
Density	ISO 1183	-	g/cm³	1.31
Water absorption	-	23degC, Underwater	%	0.10
Demensional properties				
Moulding shrinkage (100×100×2mmt)	-	MD	%	1.9
		TD		1.8
Mechanical properties				
Tensile modulus	ISO 527-1 , 527-2	-	MPa	2550
Yield stress				55
Yield strain			%	4
Nominal strain at break				170
Stress at 50% strain			MPa	-
Stress at break				-
Strain at break			%	-
Flexural strength	ISO 178	-	MPa	80
Flexural modulus				2300
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m²	NB
Charpy notched impact strength		23 degC	kJ/m²	6
Thermal properties				
Melting temperature	ISO 11357-3		degC	224
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	67
		0.45MPa		165
Coefficient of Linear thermal expansion	ISO 11359-2	MD : -30~120degC	1/degC*10^-5	12
		MD : -30~50degC		8
		MD : 50~120degC		14
		TD : -30~120degC		12
		TD : -30~50degC		9
		TD : 50~120degC		15
Flammability	UL94	-	-	HB (0.83mmt)
Electrical properties				
Relative permittivity	IEC 60250	1MHz	-	3.3
Dissipation factor	IEC 60250	1MHz	-	0.022
Volume resistivity	IEC 60093	-	ohm-m	4E+14
Surface resistivity	IEC 60093	-	ohm	3E+15
Electric strength	IEC 60243-1	1mmt		22
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Comparative tracking index	UL746A	-	-	PLC 0
Note				
Molding conditions -Examples of recommended molding conditions are shown below.-				
Drying of feedstock resin				Hot air drying at 120°C ---5 to 8 hours at 140°C ---about 4 hours
Cylinder temp (rear)			°C	235
Cylinder temp (center)			°C	240
Cylinder temp (front)			°C	250
Nozzle temp			°C	245
Mold temp			°C	60-80
Injection pressure			MPa	20-150
Screw rotation			rpm	80-150

The listed properties are portrayed as general information only and are not product specifications.
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